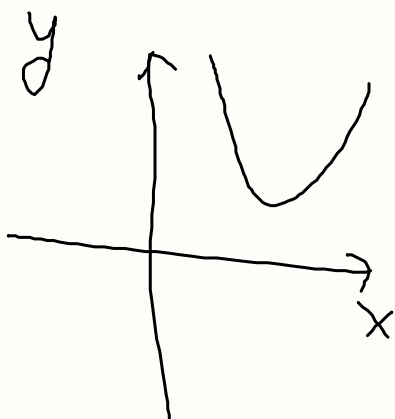
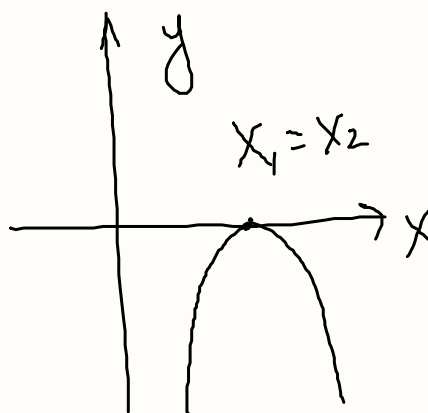
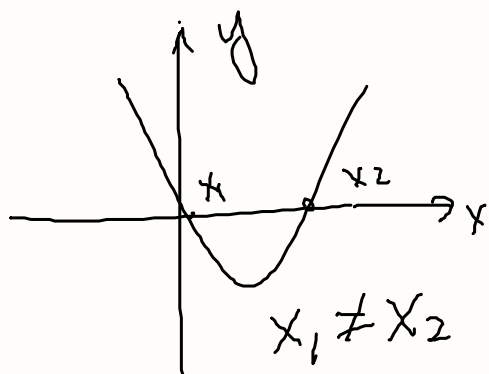


$$ax^2 + bx + c = 0$$



NO REAL SOLUTIONS

$$5x^3 - 12x^2 + 4x = 0$$

$$x(5x^2 - 12x + 4) = 0$$

$$x_1 = 0$$

$$5x^2 - 12x + 4 = 0$$

$$(5x - 2)(x - 2) = 0$$

$$5x - 2 = 0$$

$$+2 +2$$

$$5x = 2 \quad \frac{2}{5} = 0.4$$

$$\text{or } x - 2 = 0$$

$$+2 +2$$

$$x_3 = 2$$

p.448-449

zoom 6

$$y_1 = 5x^3 + 12x^2 + 4x$$

$$y_2 = x(5x - 2)(x - 2)$$

WINDOW

$$x_{\min} = -2$$

$$x_{\max} = 4$$

$$y_{\min} = -5$$

$$y_{\max} = 3$$

#11 p.453

$$x^3 + 2x^2 - 35x = 0$$

$$x(x^2 + 2x - 35) = 0$$

$$x_1 = 0$$

$$(x+7)(x-5) = 0$$

$$\begin{array}{l} x+7=0 \text{ or } x-5=0 \\ \quad -7 \quad -7 \quad \quad +5 \quad +5 \\ \hline x_2 = -7 \quad \quad x_3 = 5 \end{array}$$

$$\textcircled{13} \quad x^3 - 6x^2 - 27x = 0$$

$$\underline{x} \underline{x} \underline{x} - 6 \underline{x} \underline{x} - 27 \underline{x} = 0$$

$$x(x^2 - 6x - 27) = 0$$

$$x_1 = 0$$

$$x^2 - 6x - 27 = 0$$

$$(x - 9)(x + 3) = 0$$

$$-9 \cdot 3 = -27$$

$$-9 + 3 = -6$$

$$\begin{array}{l} x - 9 = 0 \\ +9 \quad +9 \\ \hline x = 9 \end{array}$$

$$\begin{array}{l} x + 3 = 0 \\ -3 \quad -3 \\ \hline x_2 = -3 \end{array}$$

HOME p.453 #12,14,16

